

U.S. Pat. App. Serial No. 10/719,517

AMENDMENT

Claims 1-131 (canceled).

132. (Original) A projection apparatus, comprising:

[a] means for producing a primary beam of light having a predetermined range of wavelengths, randomly changing orientations of a chosen component of electric field vectors, a substantially uniform flux intensity substantially across the initial beam of light, and a rectangular cross sectional area;

[b] means for separating the primary beam of light into three primary color beams of light, each of the primary color beams having the same selected predetermined orientation of a chosen component of electric field vectors as that of the other primary color beams;

[c] three means for altering the selected predetermined orientation of the chosen component of the electric field vectors of a plurality of portions of each of the separate primary color beams of light by passing the plurality of portions of each of the separate primary color beams of light through a respective one of the altering means whereby the selected predetermined orientation of the chosen component of the electric field vectors of the plurality of portions of each of the separate primary color beams of light is altered in response to a stimulus means by applying a signal means to the stimulus means in a predetermined manner as the plurality of portions of each of the separate primary color beams of light passes through the respective one of the means for altering the selected predetermined orientation of the chosen component of the electric field vectors;

[d] means for combining the altered separate primary color beams of light into a single collinear beam of light without substantially changing the altered selected predetermined orientation of the chosen component of the electric field vectors of the plurality of portions of each of the separate beams of light by dichroic reflection surfaces intersecting in X-letter form;

[e] means for resolving from the single collinear beam of light a first resolved beam of light having substantially a first selected predetermined orientation of a chosen component of electric field vectors and a second resolved beam of light having substantially a second selected predetermined orientation of a chosen component of electric field vectors, whereby the first and second selected

U.S. Pat. App. Serial No. 10/719,517

predetermined orientation of the chosen component of the electric field vectors are different from one another;

[f] means for passing at least one of the resolved beams from the single collinear beam of light to a projection means;

[g] a driving circuit for driving each of the three altering means according to the signal means; wherein the color separating means comprises a first flat-plate type dichroic mirror and a second flat-plate type dichroic mirror intersecting in X-letter form, light paths from the intersecting part to each of the altering means having lengths such that the path of the color light which advances straightly through the color separating means is the shortest, the second dichroic mirror being constructed by two dichroic mirrors separated at the intersecting part so that the dichroic reflecting surfaces of the two dichroic mirrors are placed on mutually different planes to allow two-edge surfaces of the two dichroic mirrors forming the intersecting part to be seen as being at least partially overlapping when the color-separating means is observed from the output light side in a direction along its input light.

Claims 133-438 (canceled).